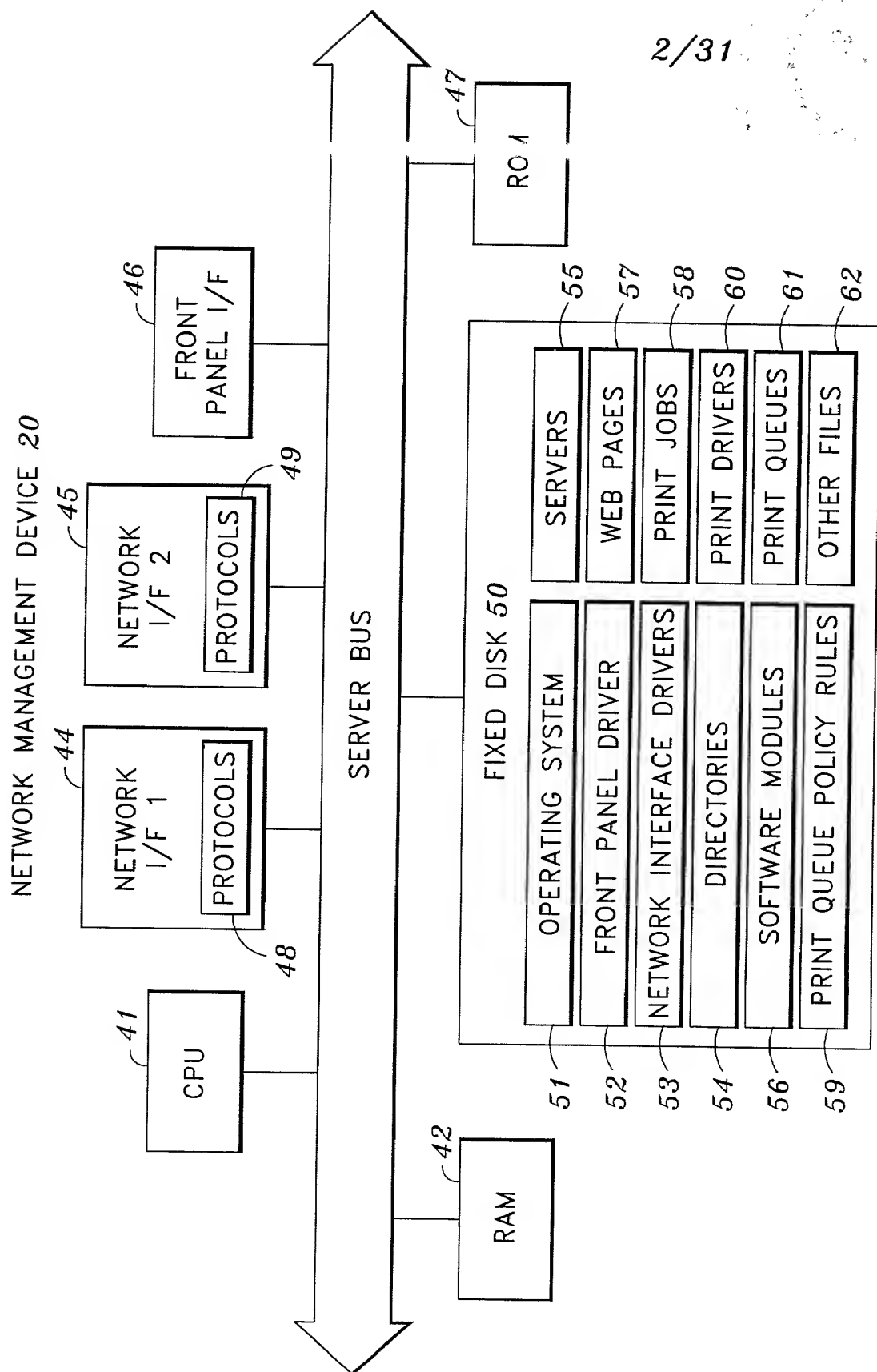
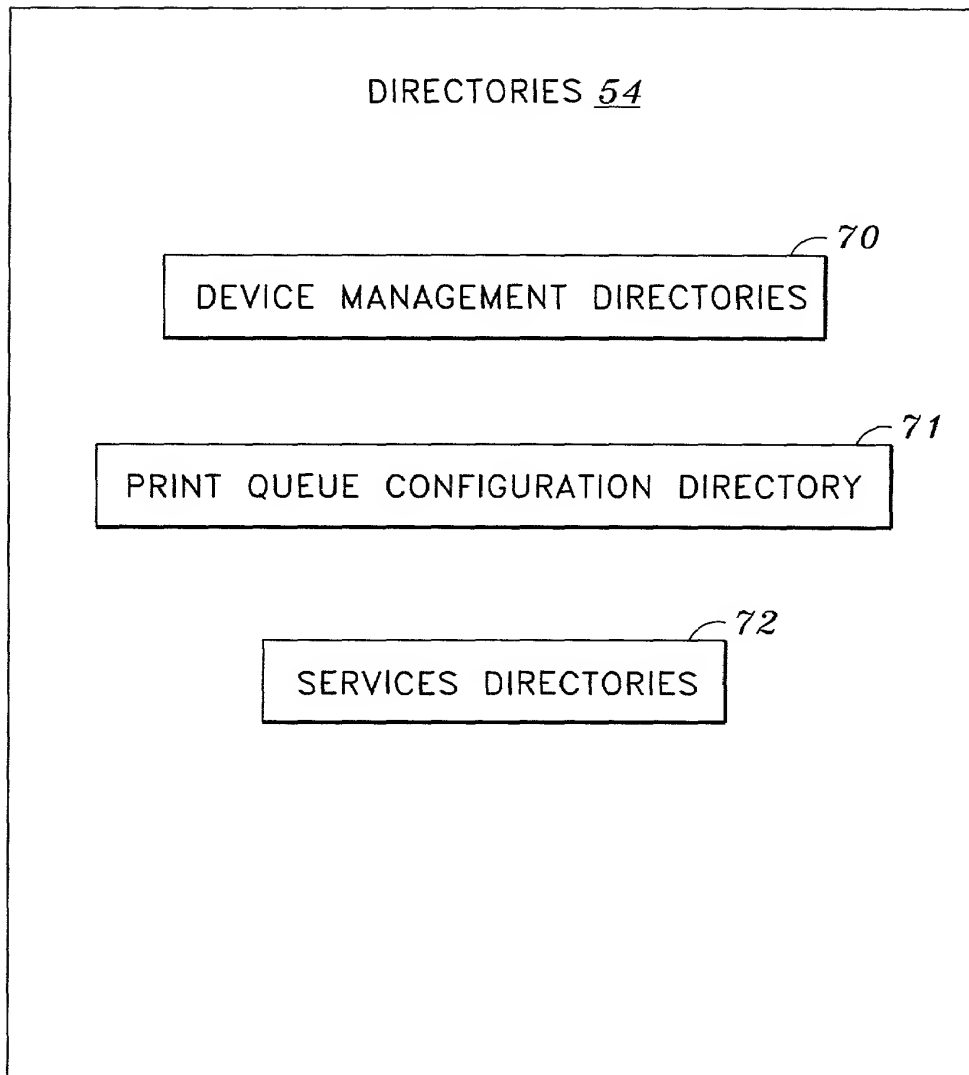


FIG. 1



**FIG. 2**



*FIG. 3*

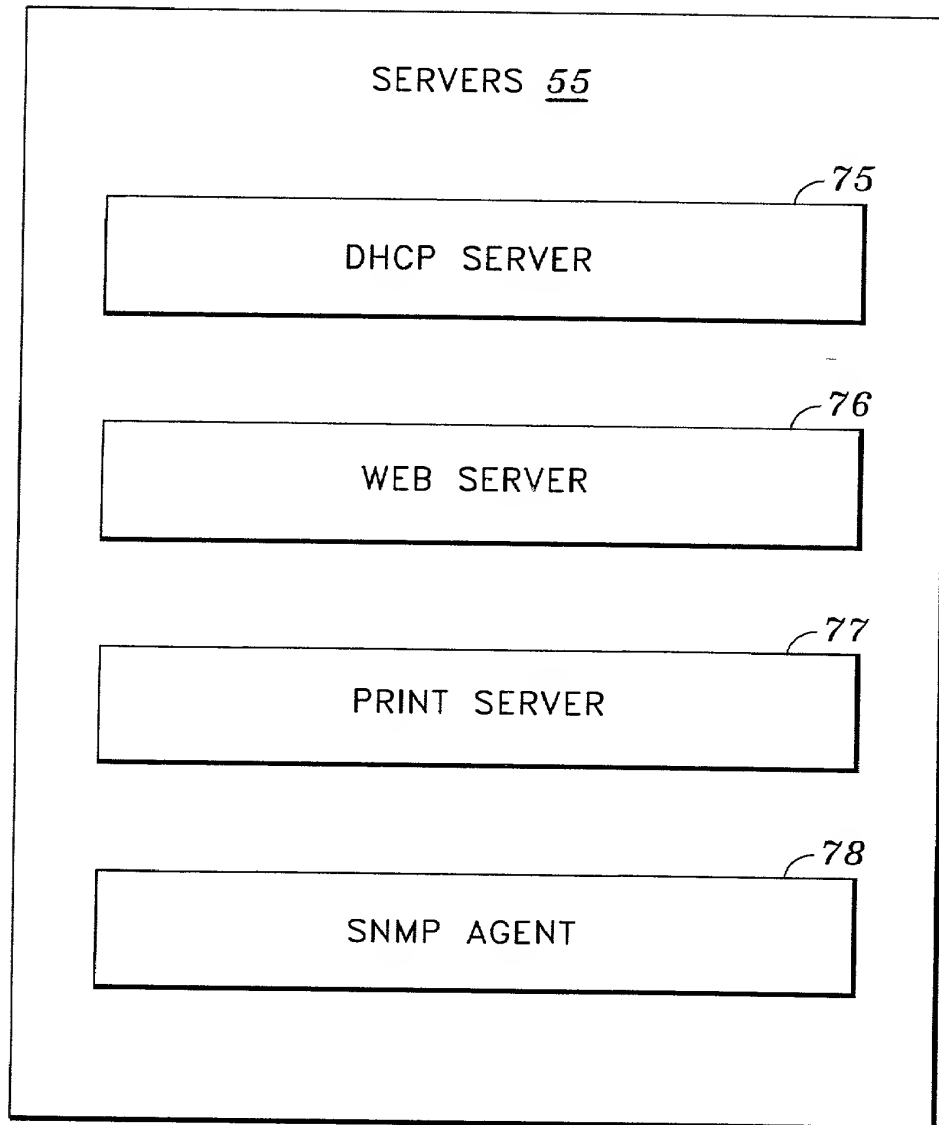


FIG. 4

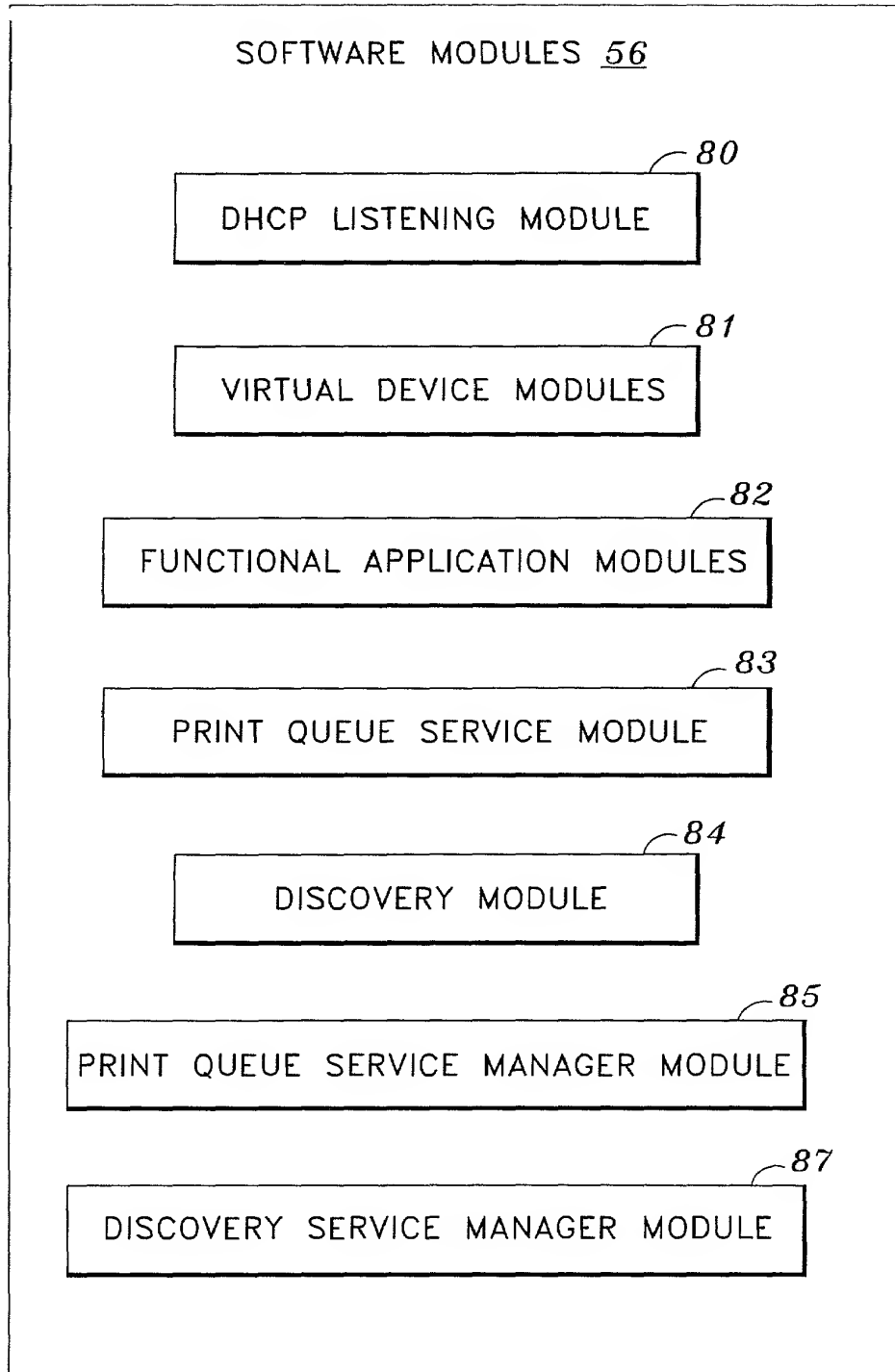
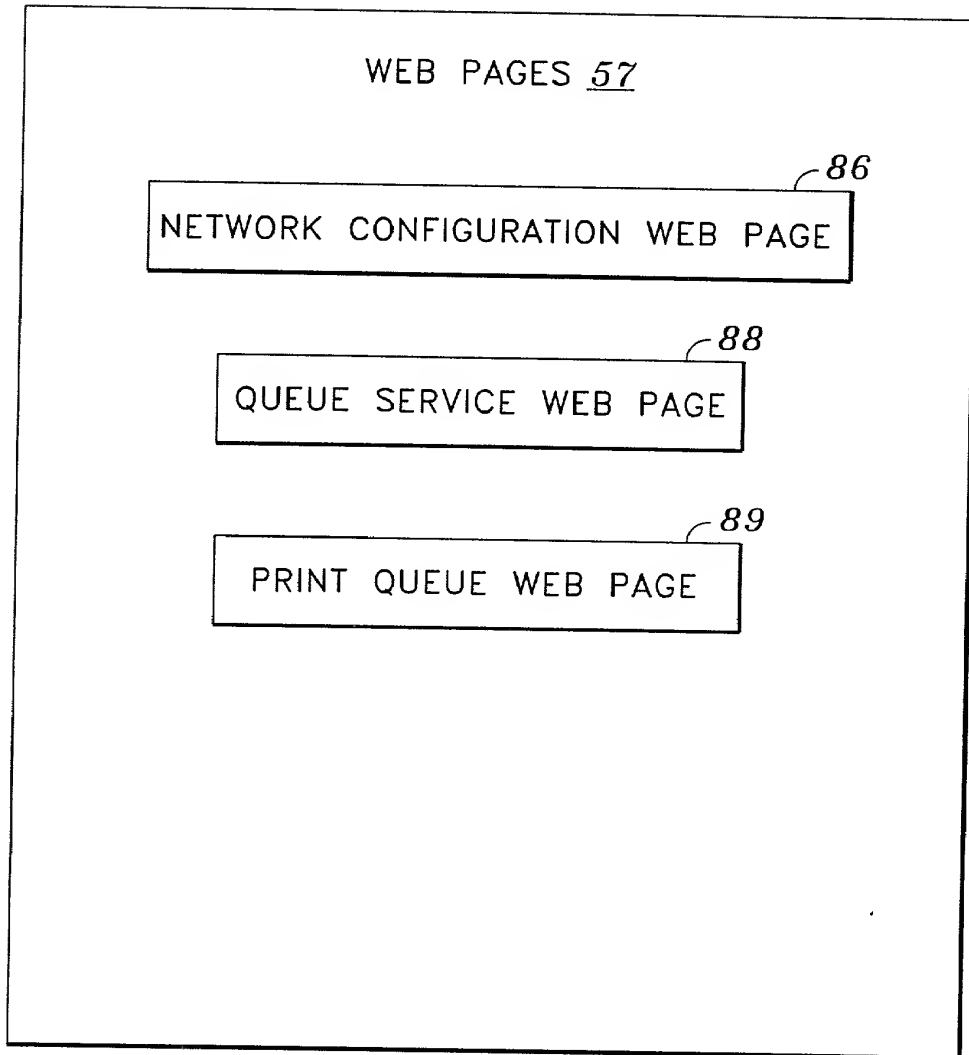


FIG. 5



*FIG. 6*

DEVICE MANAGEMENT DIRECTORY 70

ENTRY 90	MAC ADDRESS 91	PRINT DEVICE TYPE 92	IP ADDRESS 93	NETWORK CONFIGURATION INFORMATION 94
Entry 1	00:00:85:69:0A:B3	Canon Laser	129.65.220.8	Domain Name, e c.
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
Entry N	--	--	--	--

FIG. 7

PRINT QUEUE CONFIGURATION DIRECTORY 71

	IP ADDRESS 100	MAC ADDRESS 101	PRINT QUEUE NAME 102	PRINTING CAPABILITIES 103	SERVE 105
Entry 1	129.65.220.8	00:00:85:69:0A:B3	Canon Laser	Color, Letter, A4	Main /
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
ENTRY N	--	--	--	--	--

FIG. 8



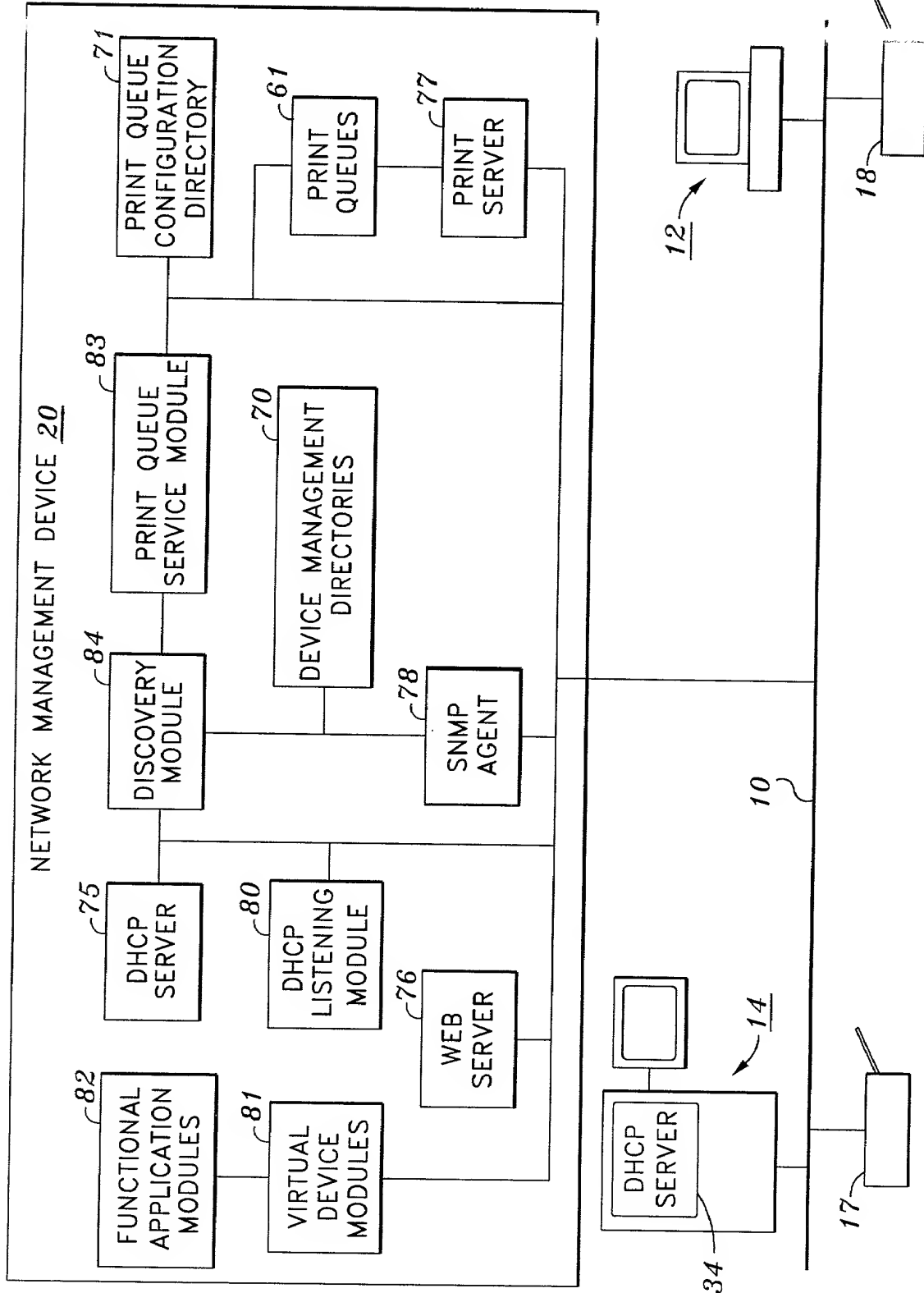


FIG. 9

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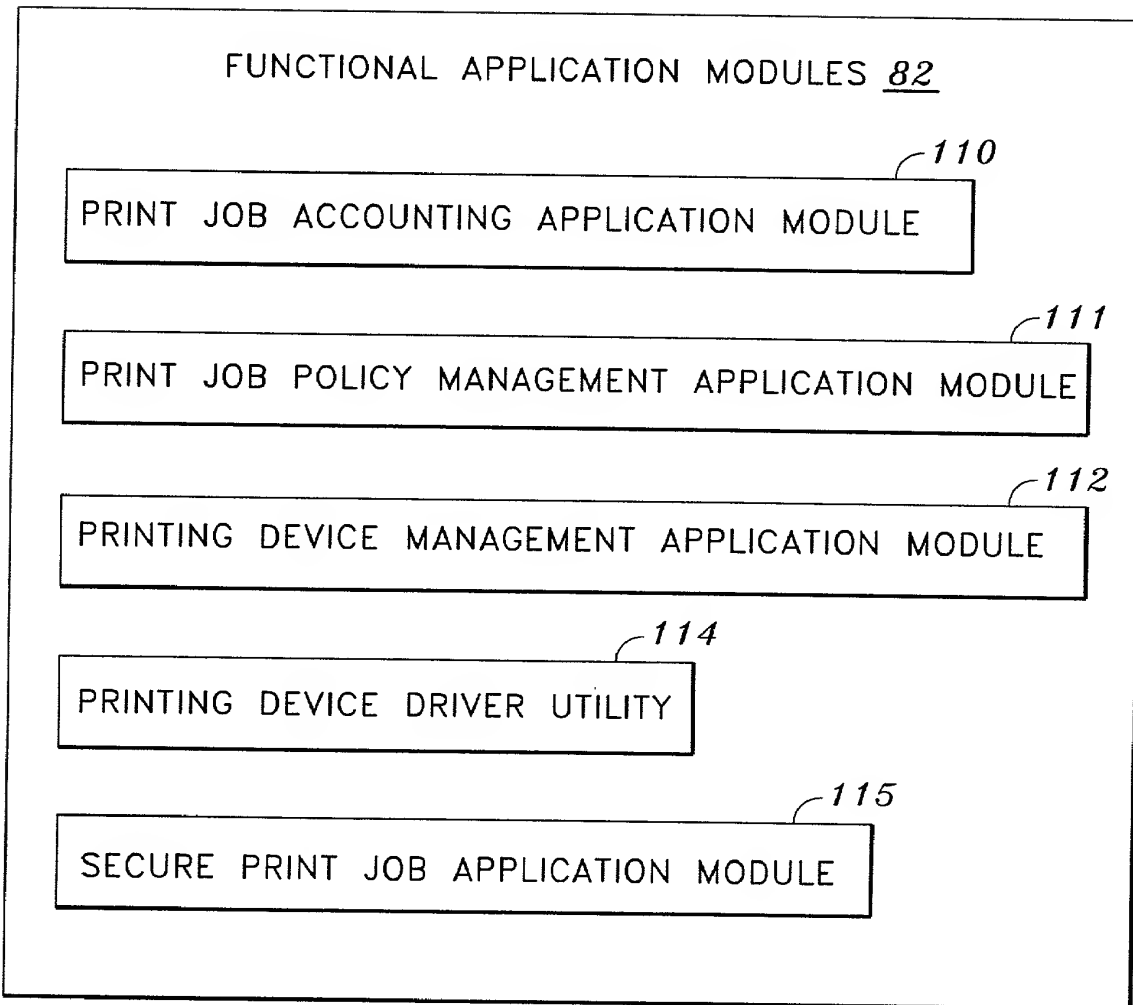


FIG. 10

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SERVICES DIRECTORIES 72

120

LOCAL SERVICES DIRECTORY		
SUBNET ID <sup>122</sup>	SERVICE <sup>124</sup>	NMD ID <sup>125</sup>
1	DISCOVERY	NMD 1
1	PRINT QUEUE	NMD 2

121

GLOBAL SERVICES DIRECTORY		
SUBNET ID <sup>122</sup>	SERVICE <sup>124</sup>	NMD ID <sup>125</sup>
1	PRINT QUEUE	NMD 1
1	DISCOV. SERV. MGR.	NMD 3
1	GLOBAL INFO SERV.	NMD 1

FIG. II

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GLOBAL SERVICES DIRECTORY <u>121</u>		
SUBNET ID <sup>122</sup>	SERVICE <sup>124</sup>	NMD ID <sup>125</sup>
1	MASTER	NMD 1
1	DISC. SERV. MGR.	NMD 3
1	GLOBAL INFO SERV.	NMD 1
1	PRINT QU. SERV. MGR.	NMD 3
.		
.		
.		
.		

FIG. 12

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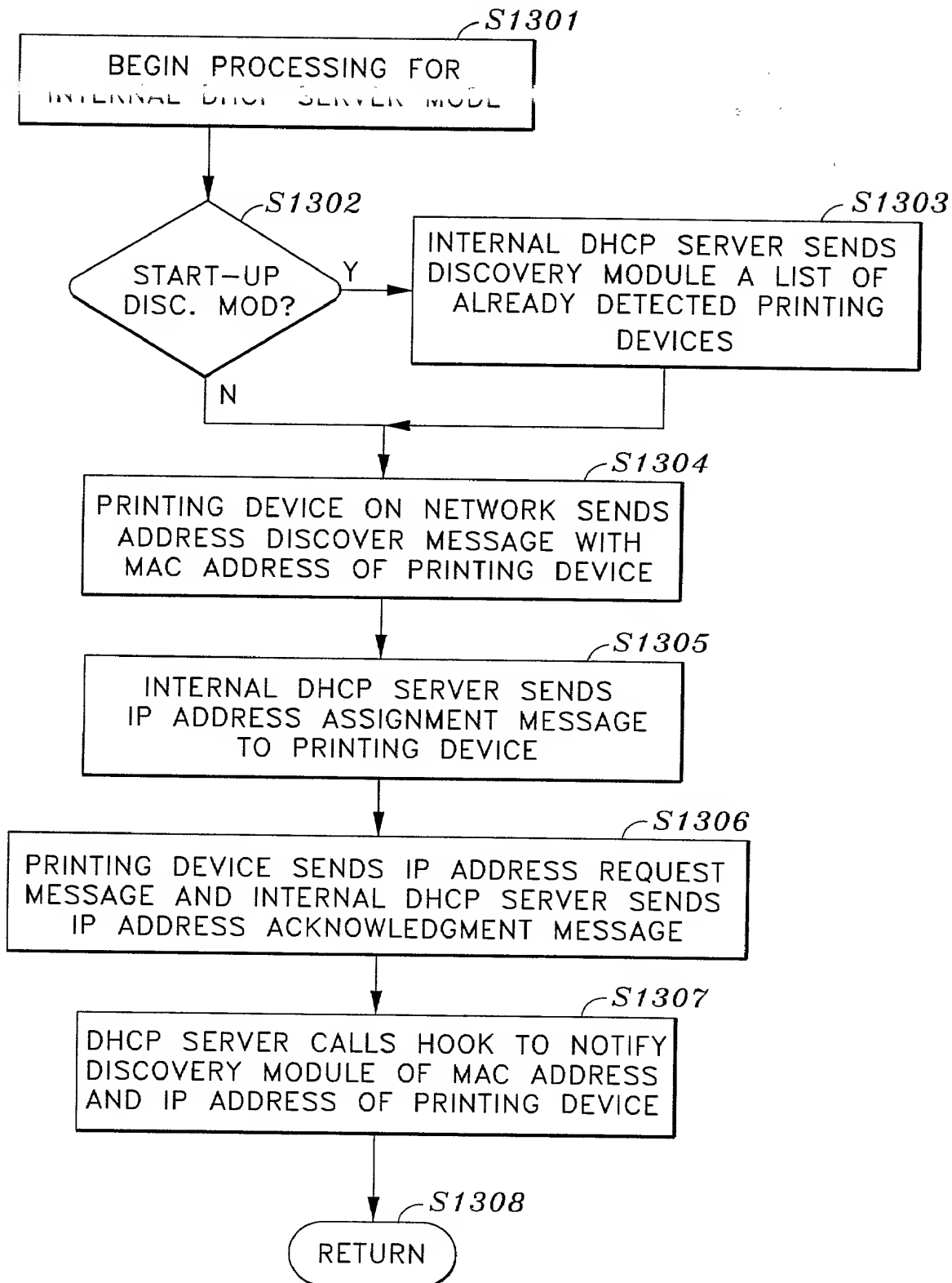


FIG.13A

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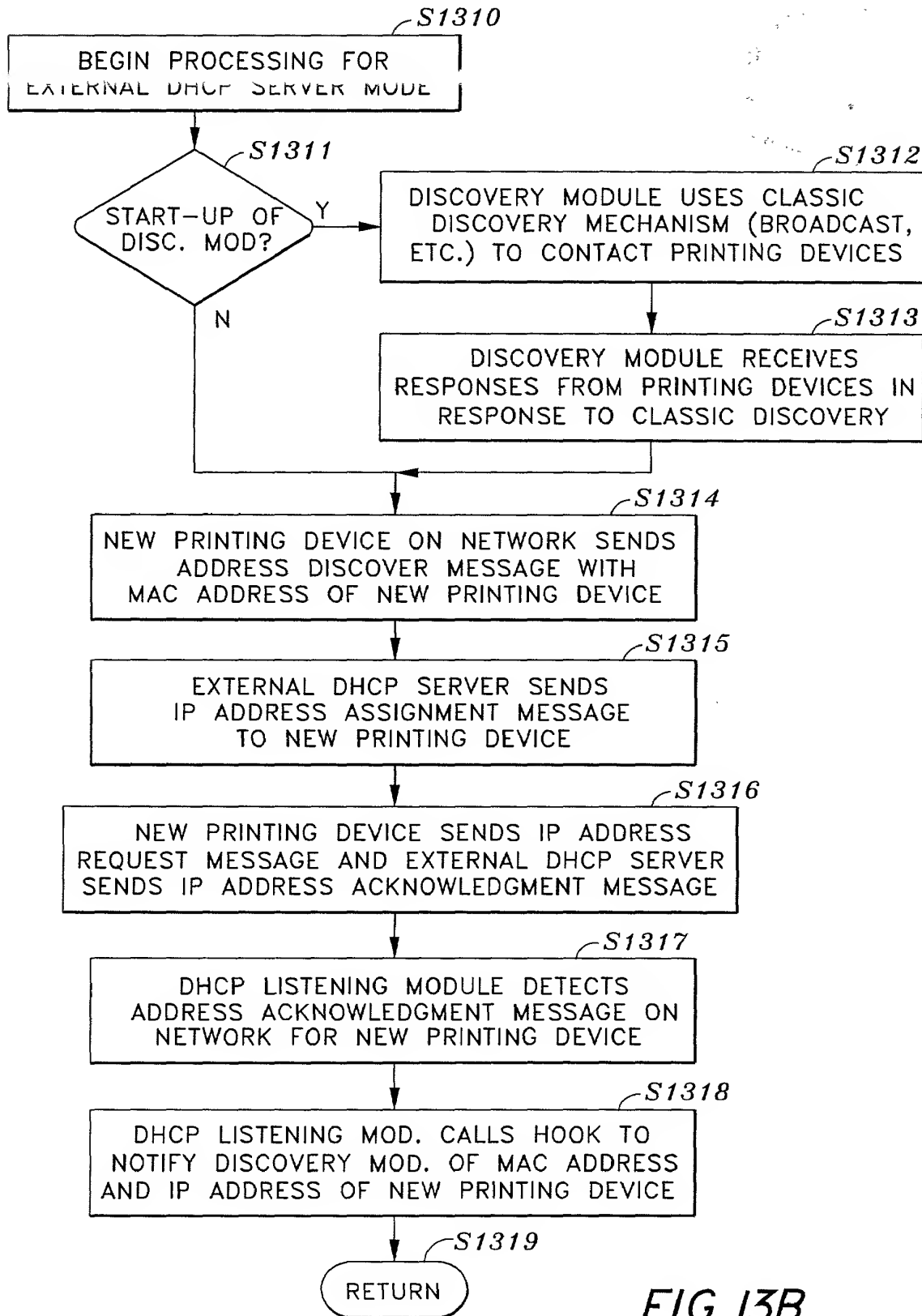
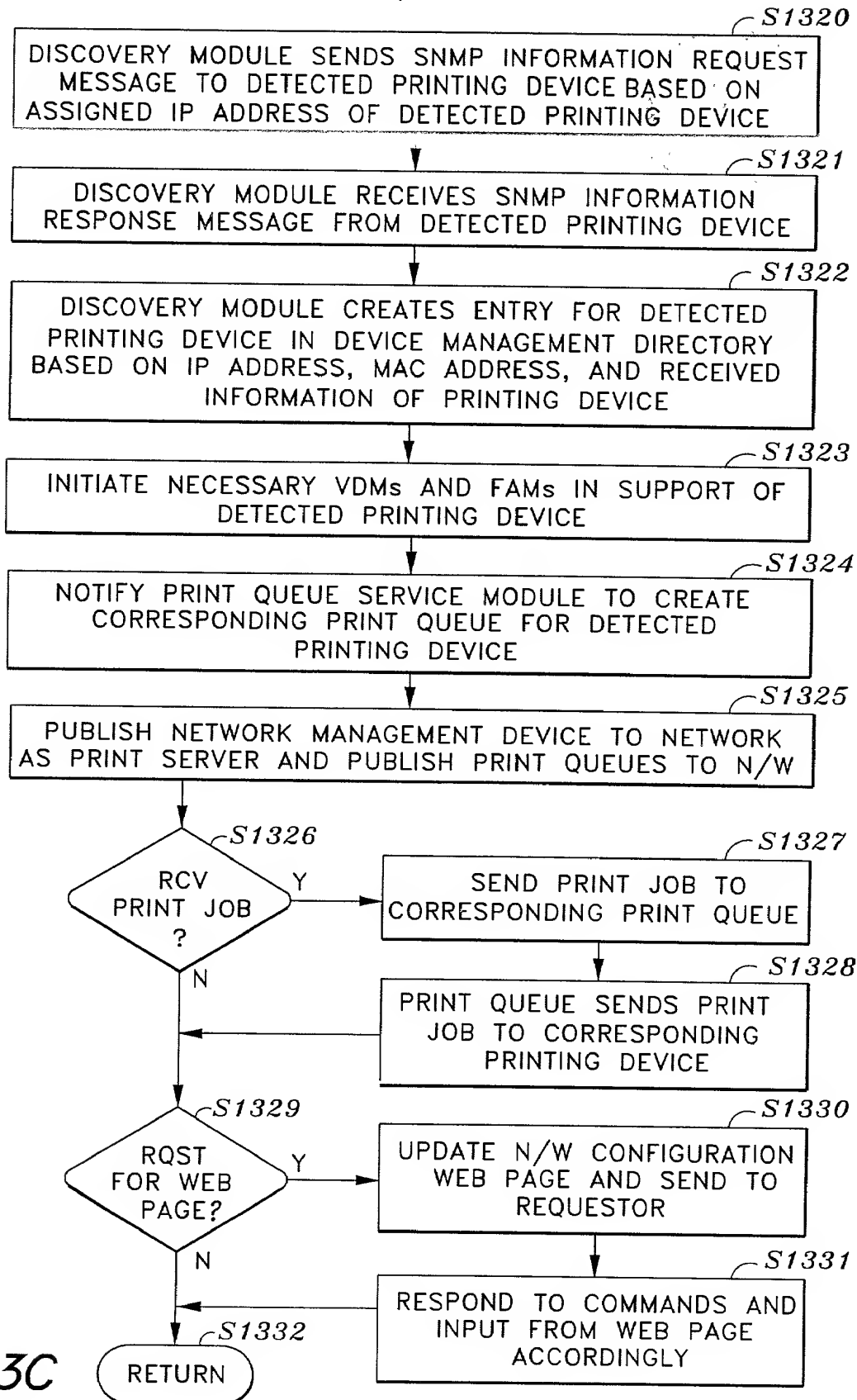


FIG.13B



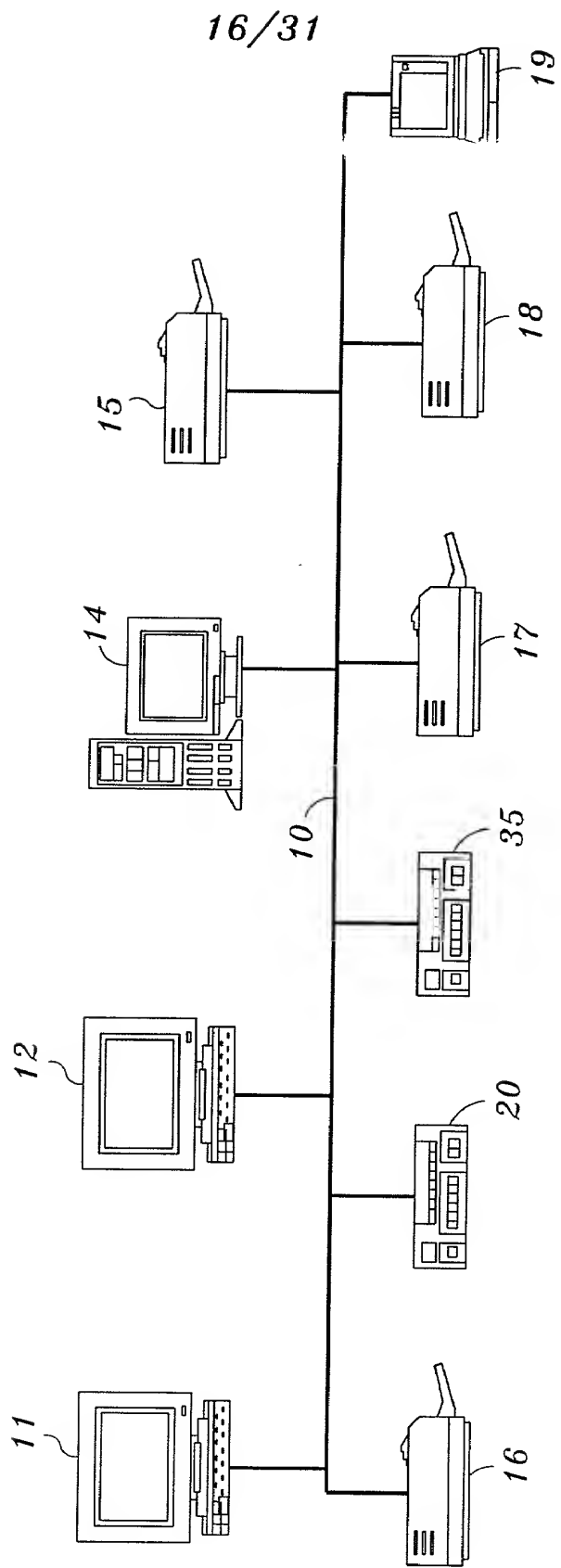


FIG. 14



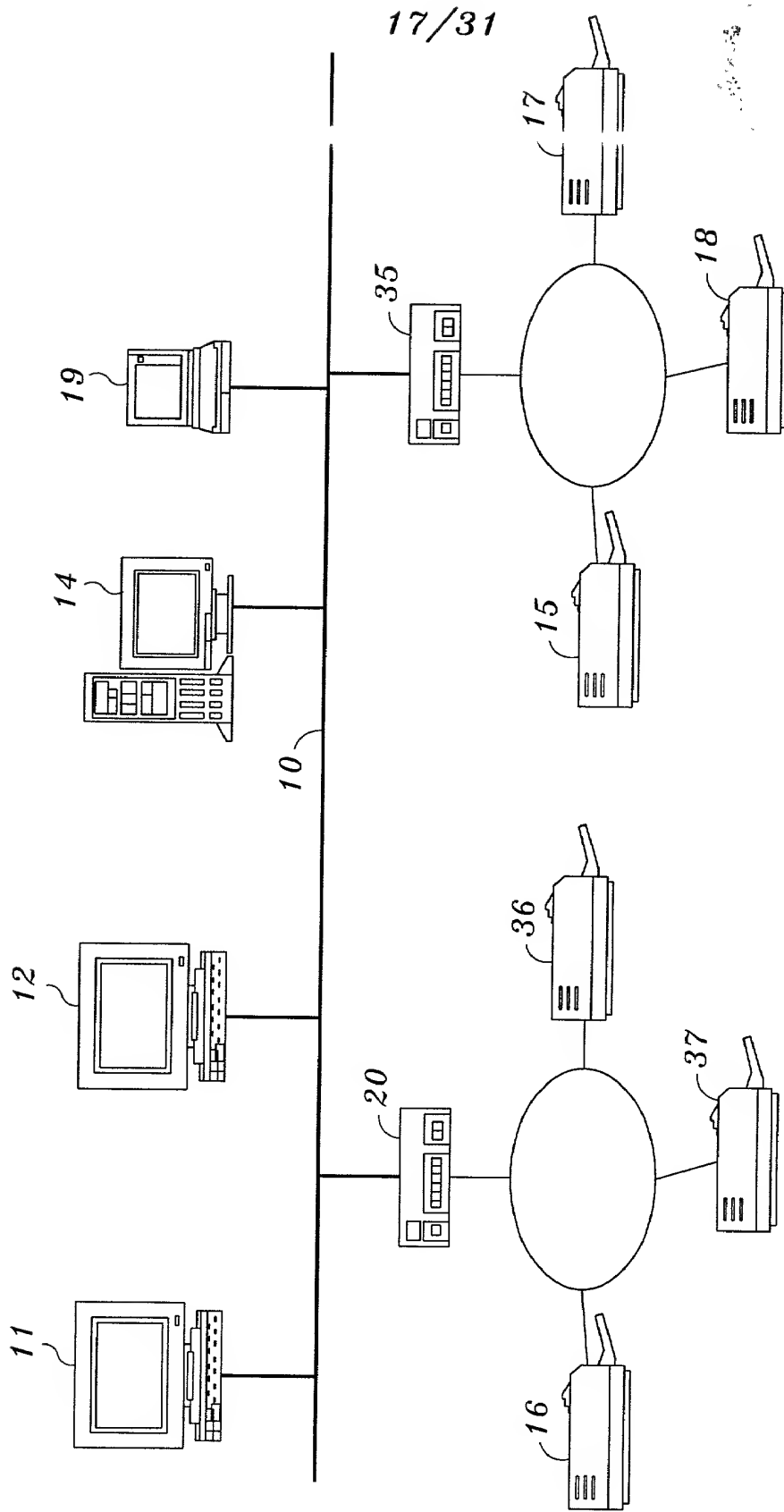


FIG. 15

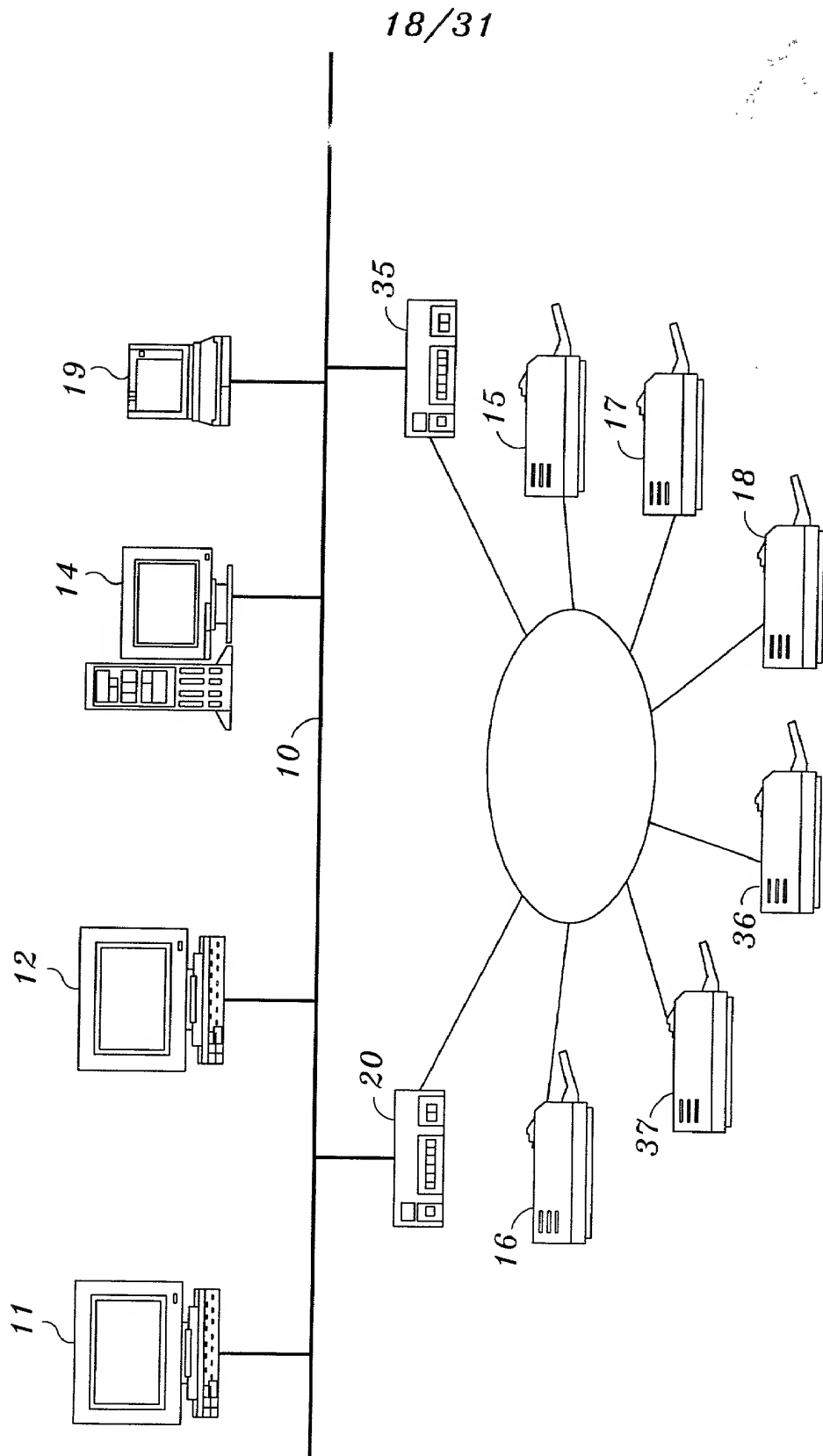


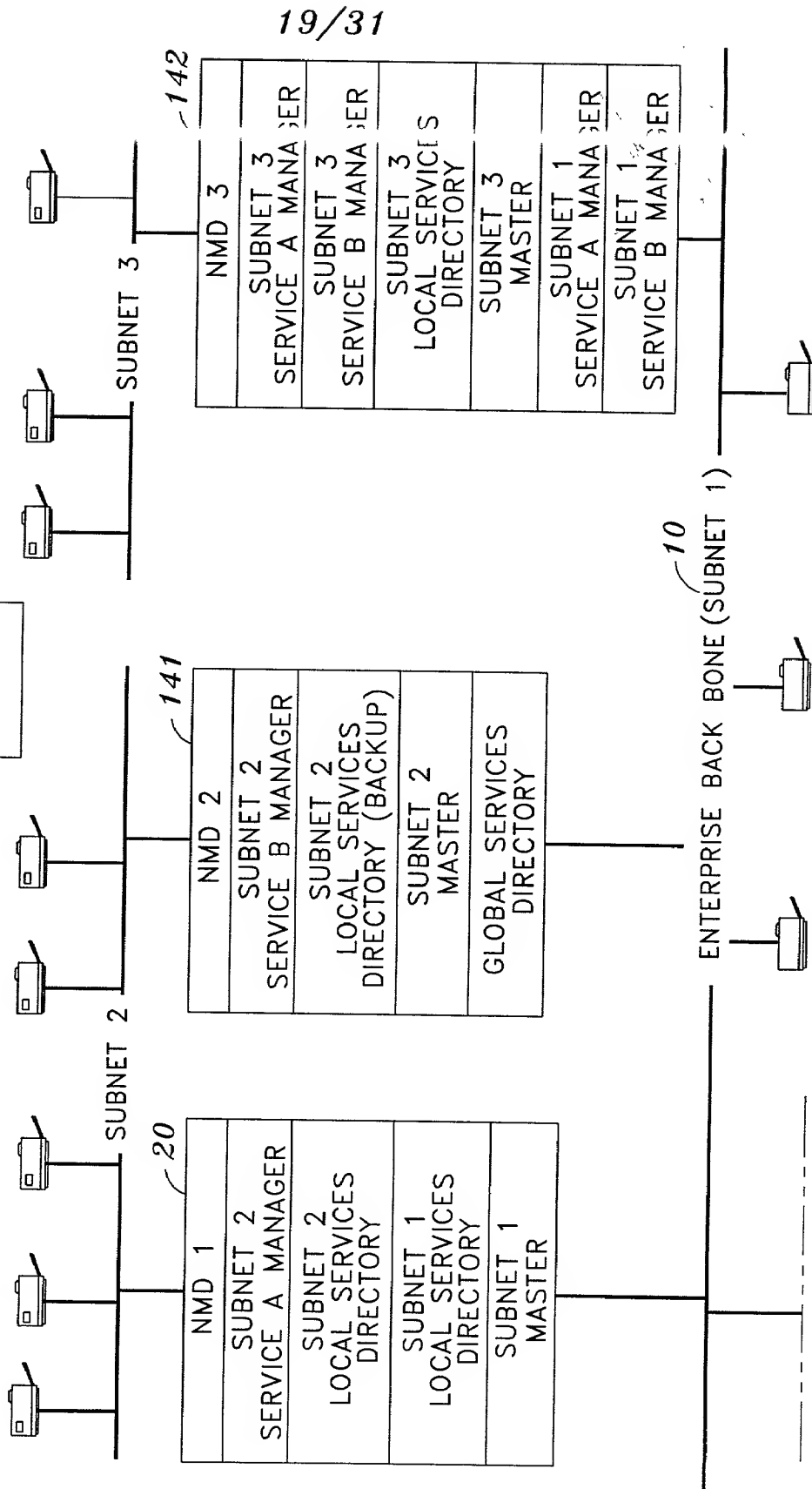
FIG. 16

FIG. 17

FIG. 17A

FIG. 17B

FIG. 17A



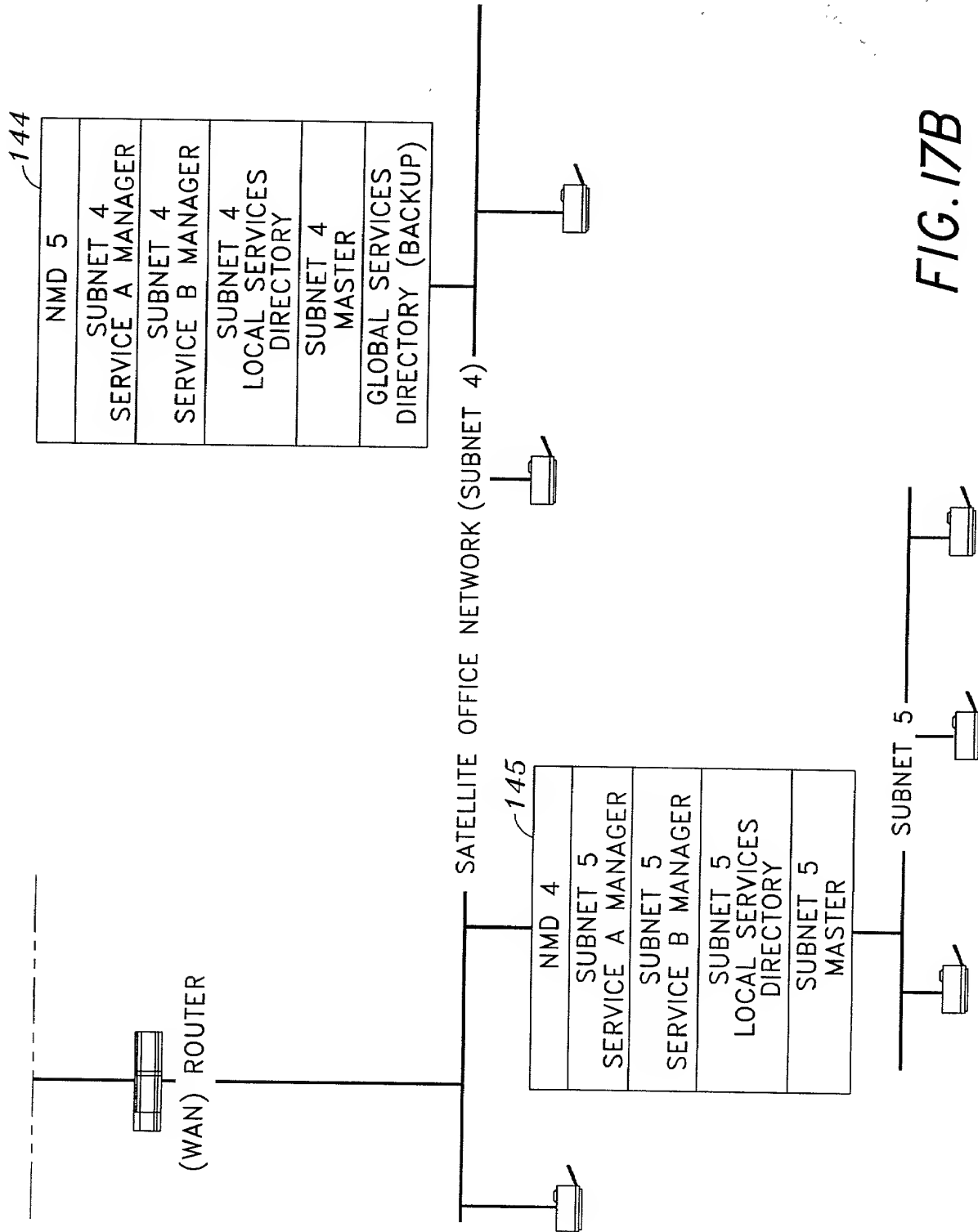


FIG. 18A

FIG. 18B

FIG. 18

FIG. 18A

SUBNET	NMD 1	COMPONENT	STATE
1		PRINTER QUEUE SERVICE	NOT RUNNING
1		DISCOVERY SERVICE	NOT RUNNING
1		LOCAL SERVICES DIRECTORY	RUNNING
1		MASTER	RUNNING
2		PRINTER QUEUE SERVICE	RUNNING
2		DISCOVERY SERVICE	NOT RUNNING
2		LOCAL SERVICES DIRECTORY	RUNNING
2		MASTER	NOT RUNNING
		GLOBAL SERVICES DIRECTORY	NOT RUNNING/BACKUP

SUBNET	NMD 2	COMPONENT	STATE
1		PRINTER QUEUE SERVICE	NOT RUNNING
1		DISCOVERY SERVICE	NOT RUNNING
1		LOCAL SERVICES DIRECTORY	NOT RUNNING/BACKUP
1		MASTER	NOT RUNNING
2		PRINTER QUEUE SERVICE	NOT RUNNING
2		DISCOVERY SERVICE	RUNNING
2		LOCAL SERVICES DIRECTORY	BACKUP
2		MASTER	RUNNING
		GLOBAL SERVICES DIRECTORY	RUNNING

FIG. 18B

		NMD 3		1, 2
SUBNET	COMPONENT			
1	PRINTER QUEUE SERVICE			
1	DISCOVERY SERVICE			
1	LOCAL SERVICES DIRECTORY			
1	MASTER			
3	PRINTER QUEUE SERVICE			
3	DISCOVERY SERVICE			
3	LOCAL SERVICES DIRECTORY			
3	MASTER			
	GLOBAL SERVICES DIRECTORY			
			NOT RUNNING/BACKUP	

		NMD 4		1, 5
SUBNET	COMPONENT			
4	PRINTER QUEUE SERVICE			
4	DISCOVERY SERVICE			
4	LOCAL SERVICES DIRECTORY			
4	MASTER			
	GLOBAL SERVICES DIRECTORY			
			STATE	
			RUNNING	
			RUNNING	
			RUNNING	
			RUNNING	
			BACKUP	

		NMD 5		1, 4
SUBNET	COMPONENT			
4	PRINTER QUEUE SERVICE			
4	DISCOVERY SERVICE			
4	LOCAL SERVICES DIRECTORY			
4	MASTER			
5	PRINTER QUEUE SERVICE			
5	DISCOVERY SERVICE			
5	LOCAL SERVICES DIRECTORY			
5	MASTER			
	GLOBAL SERVICES DIRECTORY			
			NOT RUNNING/BACKUP	
			STATE	
			NOT RUNNING	
			NOT RUNNING	
			NOT RUNNING/BACKUP	
			NOT RUNNING	
			RUNNING	
			RUNNING	
			RUNNING	
			RUNNING	
			BACKUP	

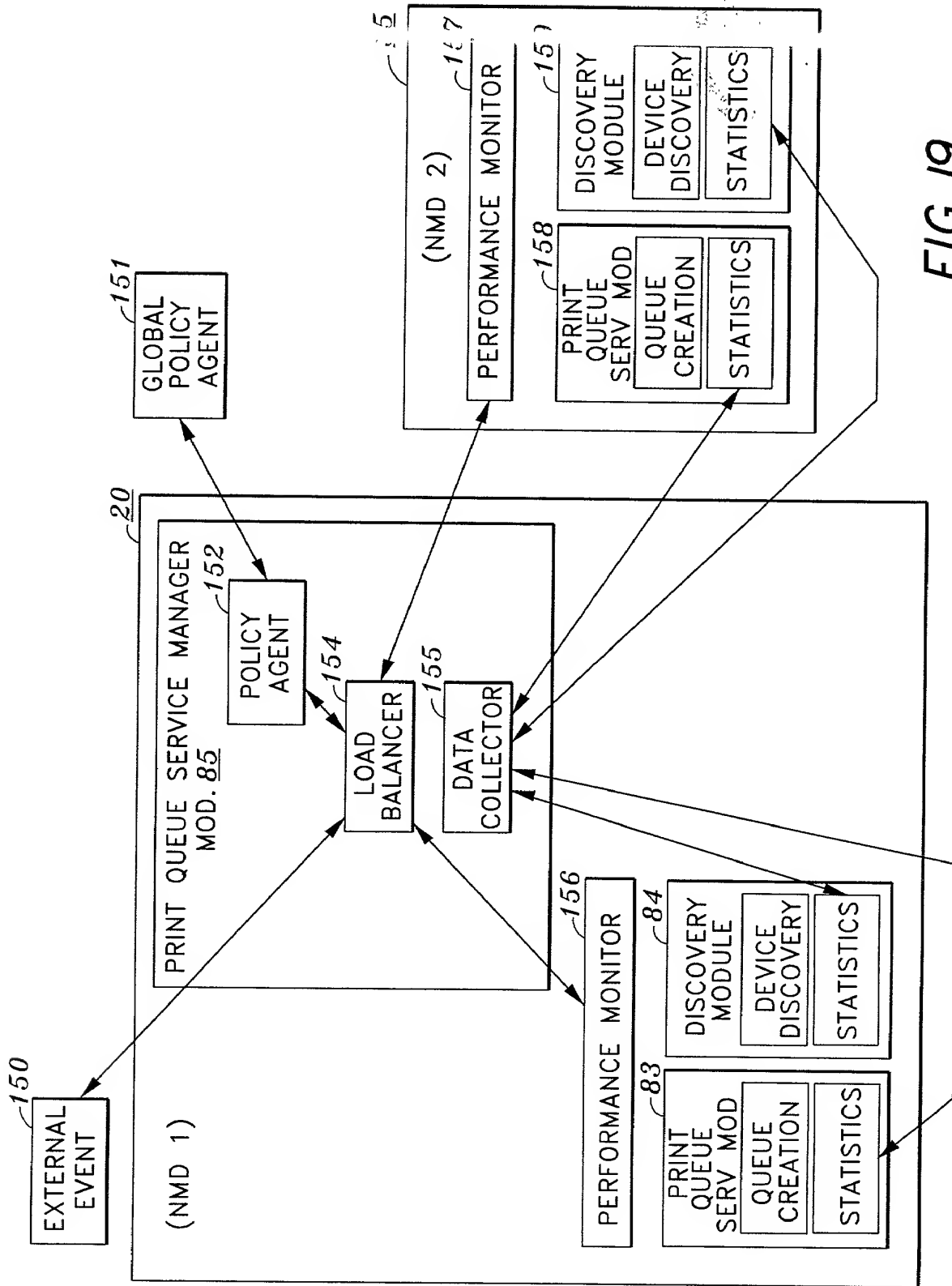


FIG. 19

FIG. 20A

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FIG. 20

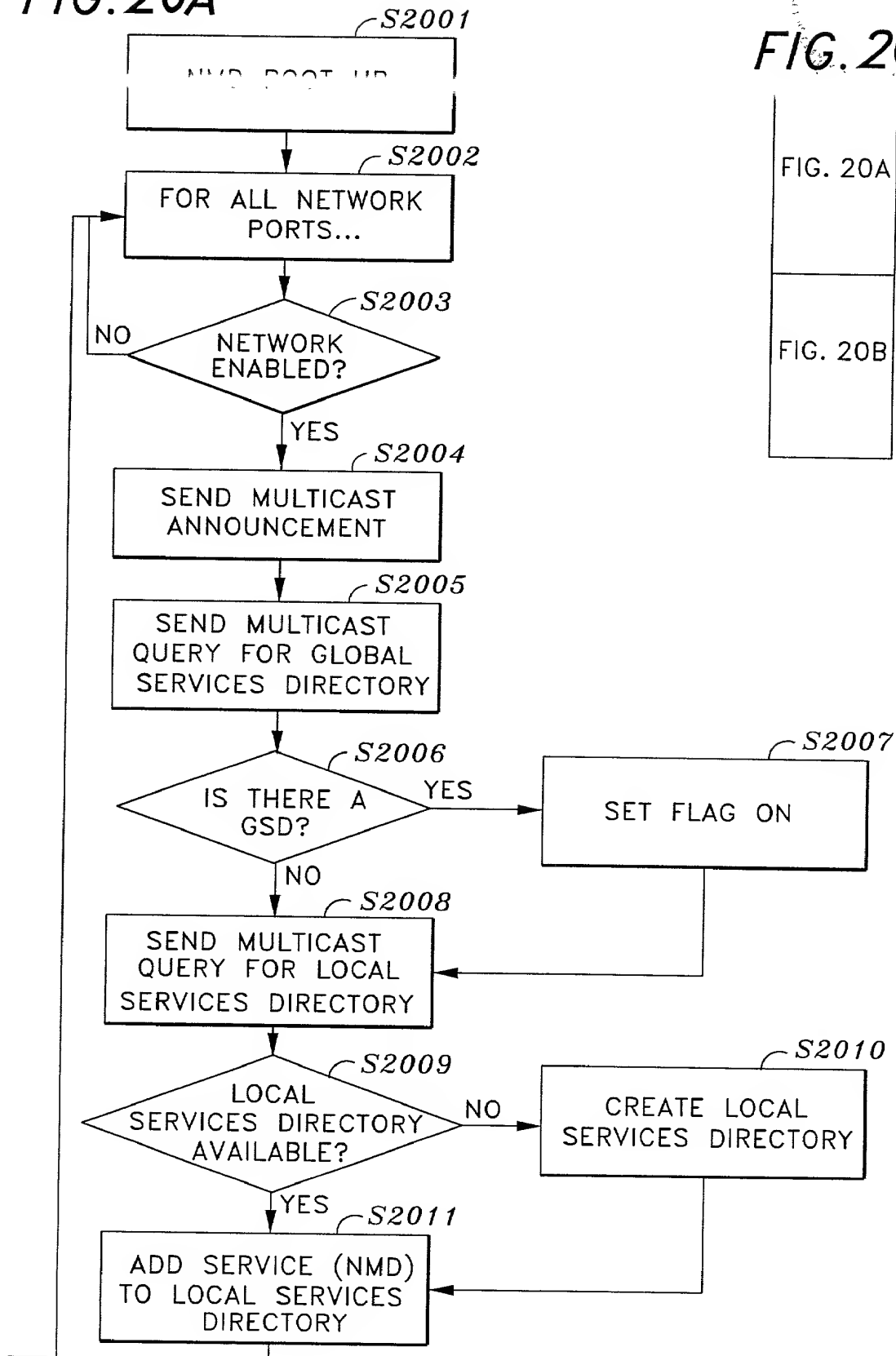


FIG. 20A

FIG. 20B



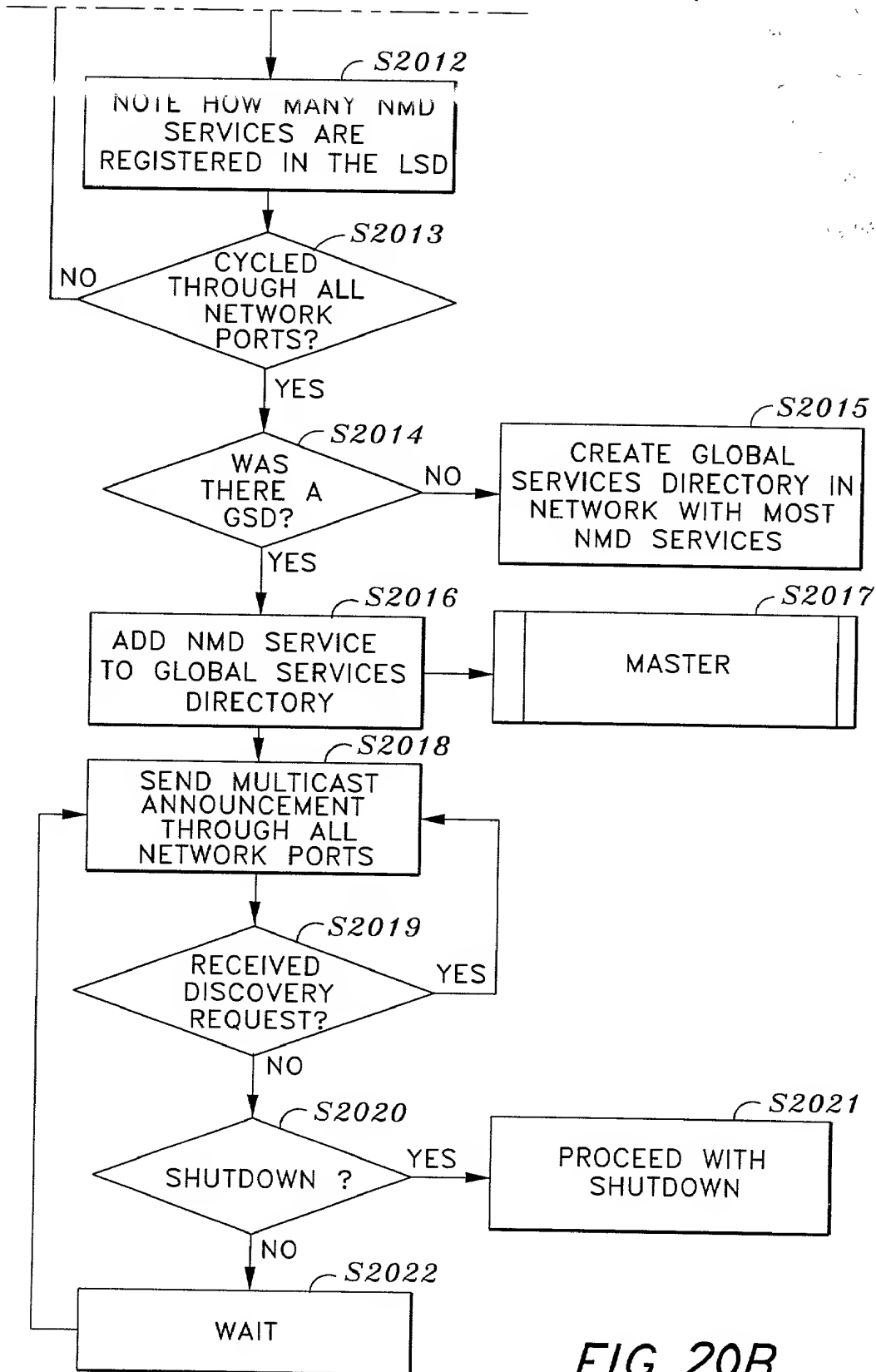


FIG. 20B

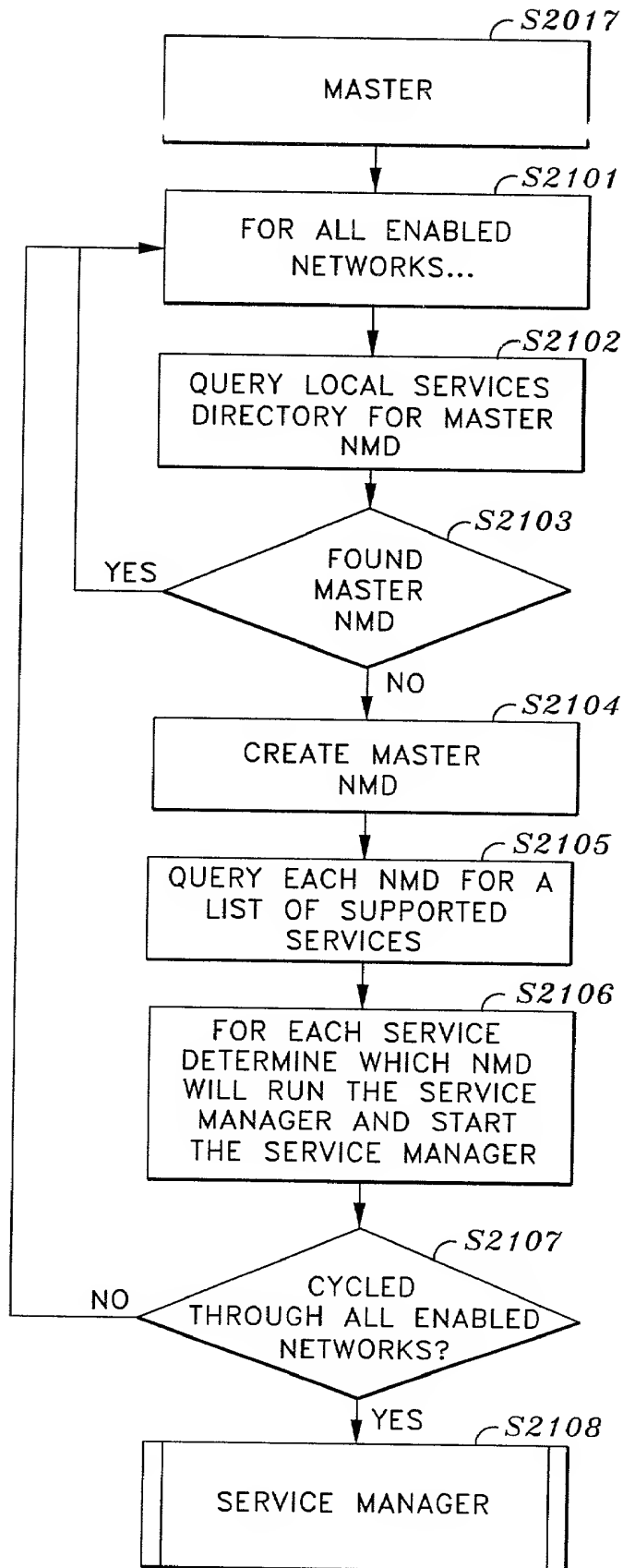


FIG. 21

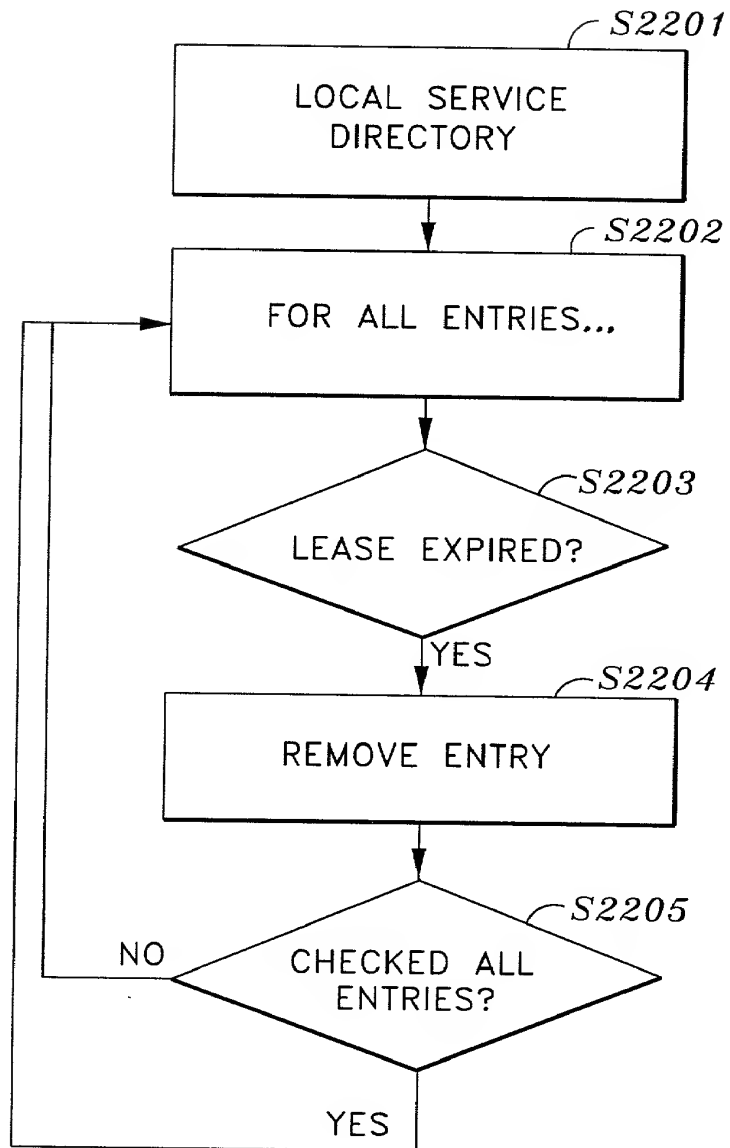
**FIG. 22**

FIG. 23A

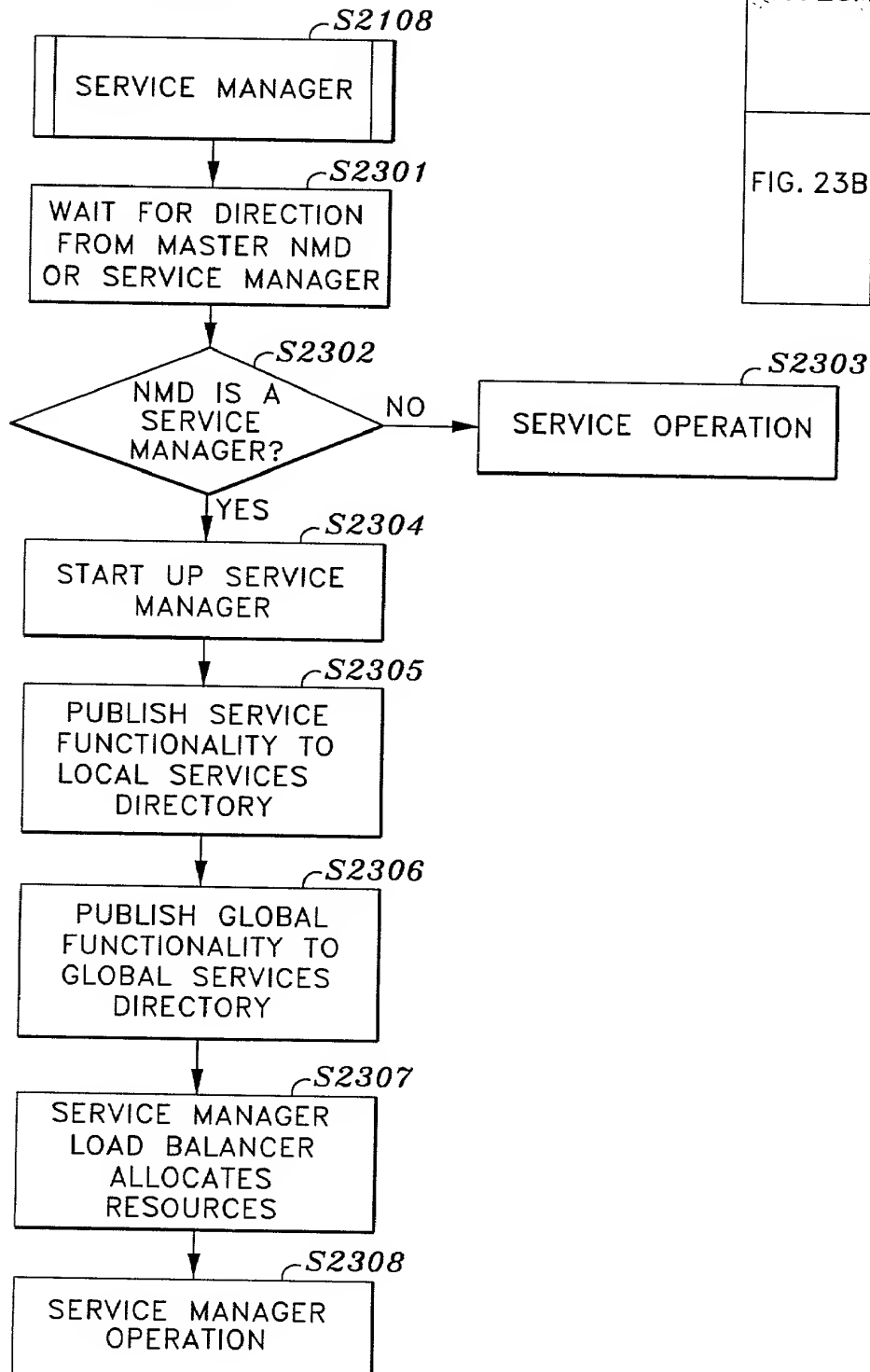


FIG. 23A

FIG. 23B

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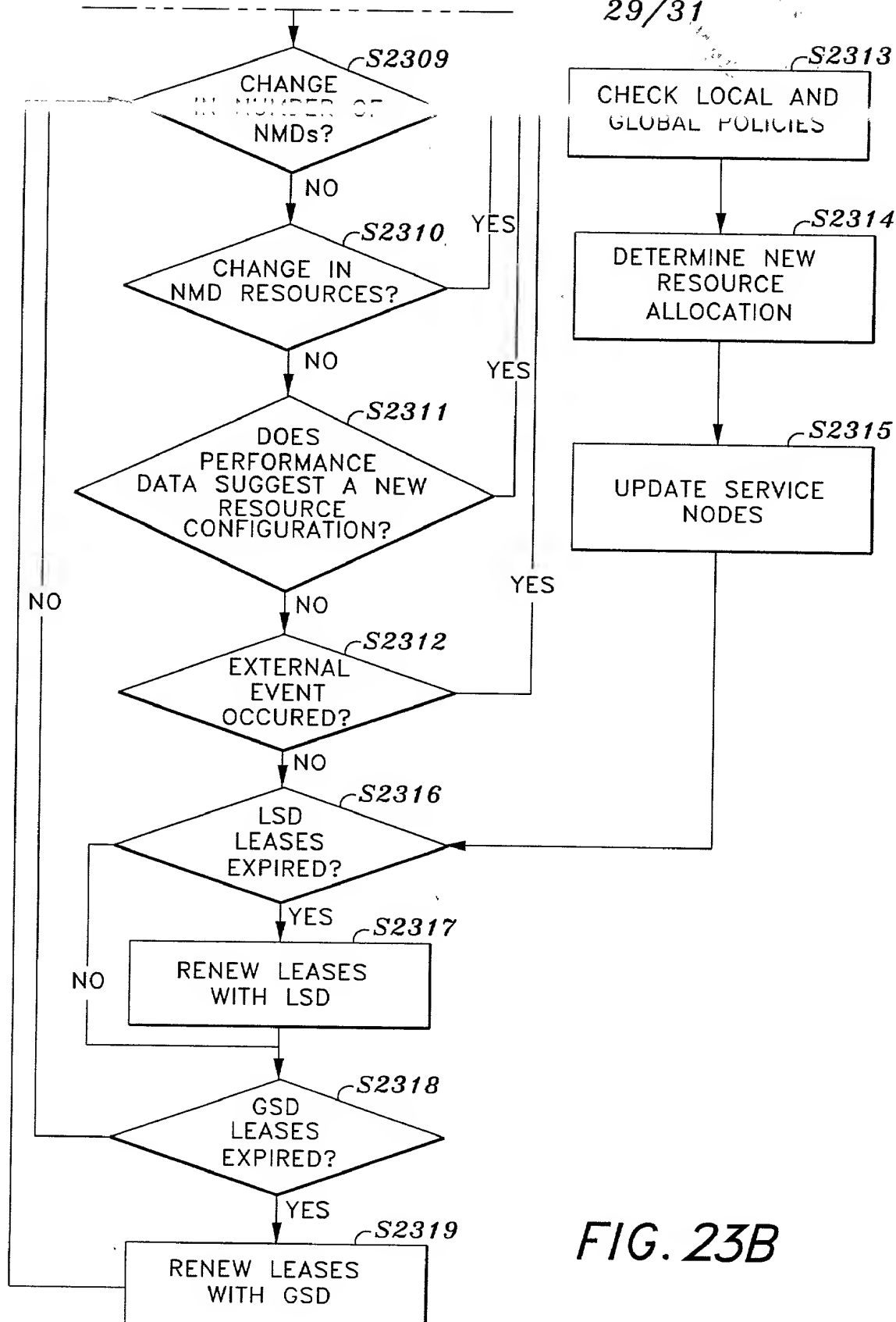
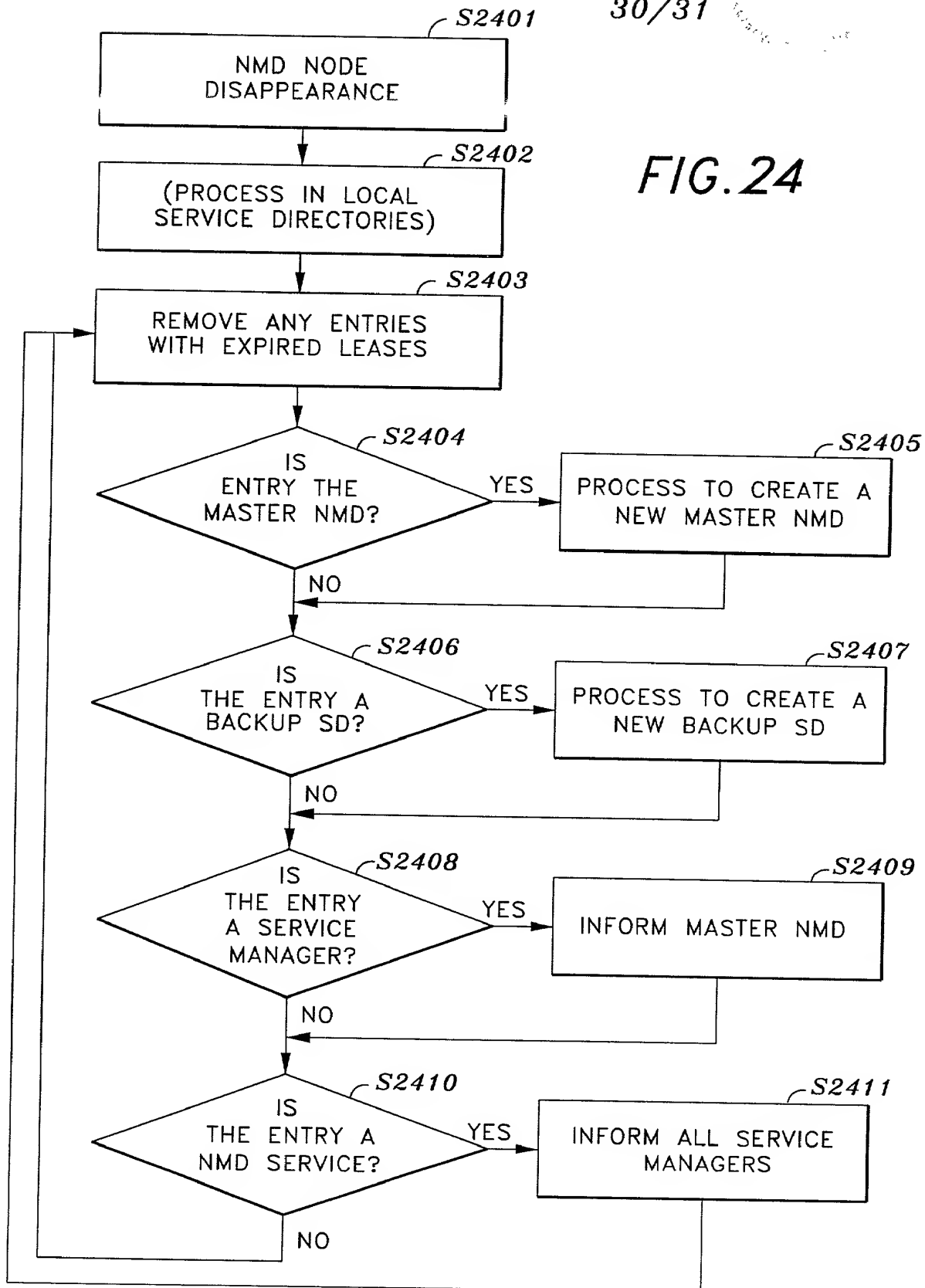


FIG. 24



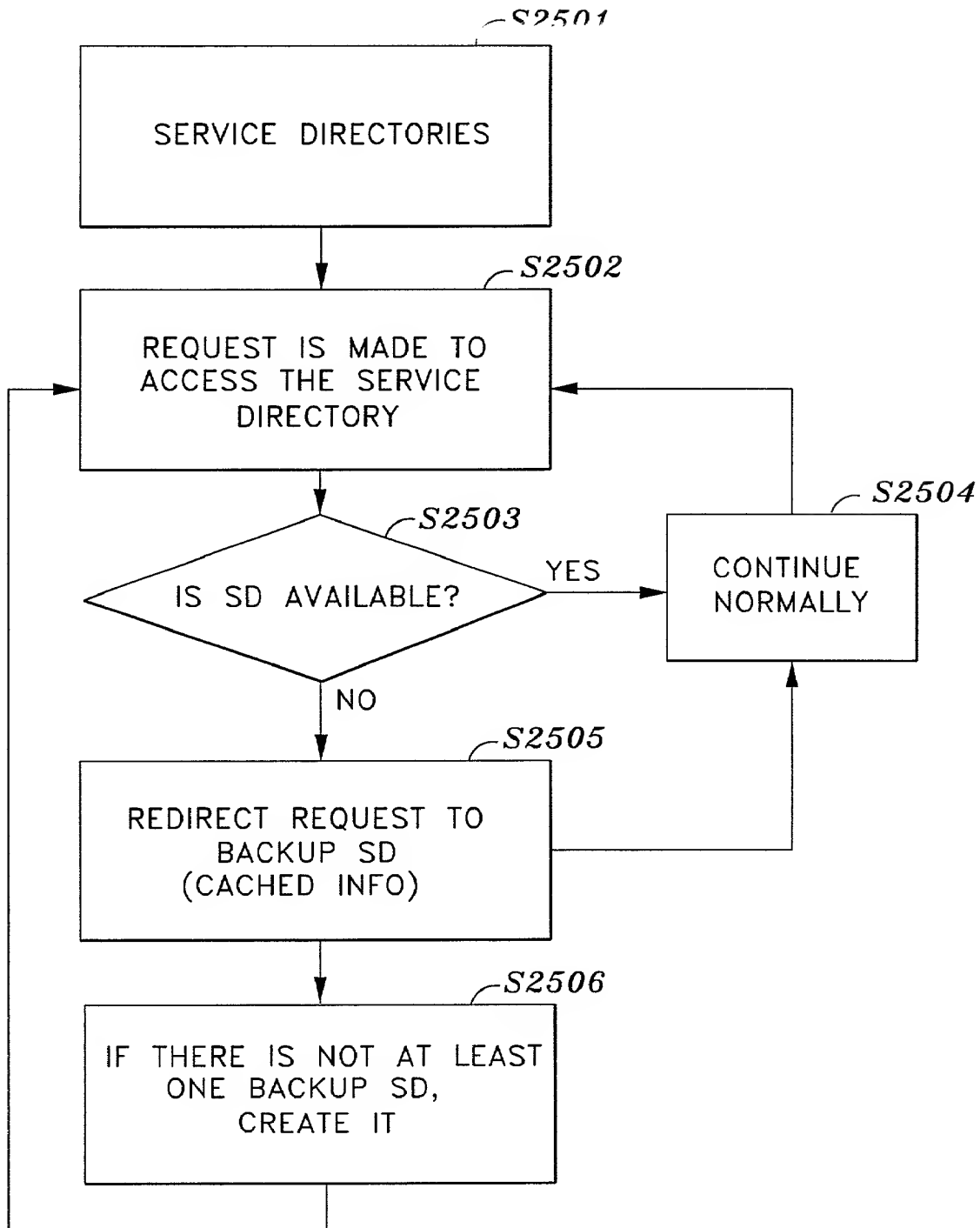


FIG. 25